

Attorney's Docket No.: 07977/192001/US3444

*RECEIVE,  
MAY 29 2002  
TECHNOLOGY CENTER*

*F* *inx*

a source region and a drain region provided in said semiconductor island;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;

a first interconnection formed on said insulating surface;

a layer comprising metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region;

an interlayer dielectric provided over said gate electrode and said layer comprising metal;

a contact hole provided over said layer comprising metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

*G*

73. (Amended) A semiconductor device comprising:

a semiconductor island comprising silicon provided on an insulating surface;

Attorney's Docket No.: 07977/192001/US3444

a source region and a drain region provided in said semiconductor island;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;

a first interconnection formed on said insulating surface;

a layer comprising metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region, said layer comprising metal being connected with said first interconnection through no contact hole;

an interlayer dielectric provided over said gate electrode and said layer comprising metal;

a contact hole provided over said layer comprising metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

74. (Amended) A semiconductor device comprising:

RECEIVED  
MAY 29 2002  
TECHNOLOGY CENTER R3700  
008

*Ex-Cont*

a semiconductor island comprising silicon provided on an insulating surface;

a source region and a drain region provided in said semiconductor island;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;

a first interconnection formed on said insulating surface;

a layer comprising metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region;

an interlayer dielectric comprising silicon nitride provided over said gate electrode and said layer comprising metal;

a contact hole provided over said layer comprising metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

Attorney's Docket No.: 07977/192001/US3444

75. (Amended) A semiconductor device comprising:

a substrate having an insulating surface;

a semiconductor island comprising silicon provided over said insulating surface;

a source region and a drain region provided in said semiconductor island;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;

a first interconnection formed on said insulating surface;

a layer comprising metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region;

an interlayer dielectric comprising silicon oxide provided over said gate electrode and said layer comprising metal;

a contact hole provided over said layer comprising metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

*F  
cont*

Attorney's Docket No.: 07977/192001/US3444

76. (Amended) A semiconductor device comprising:

a substrate having an insulating surface;

a semiconductor island comprising silicon provided over said insulating surface;

a source region and a drain region provided in said semiconductor island;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode comprising a doped polycrystalline silicon provided adjacent to said channel region with a gate insulating film therebetween;

a first interconnection formed on said insulating surface;

a layer comprising metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region;

an interlayer dielectric provided over said gate electrode and said layer comprising metal;

a contact hole provided over said layer comprising metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising metal through said contact hole,

Attorney's Docket No.: 07977/192001/US3444

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

83. (Amended) The device of claim 75 wherein said layer comprising metal is connected with said first interconnection through no contact hole.

85. (Amended) The device of claim 76 wherein said layer comprising metal is connected with said first interconnection through no contact hole.

86. (Amended) A display device comprising:  
a substrate having an insulating surface;  
a semiconductor island comprising silicon provided over said insulating surface;  
a source region and a drain region provided in said semiconductor island, said source region and said drain region comprising a silicide of a metal;  
a channel region provided in said semiconductor island between said source region and said drain region;  
a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;  
a first interconnection formed on said insulating surface;

Attorney's Docket No.: 07977/192001/US3444

a layer comprising said metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region;

an interlayer dielectric provided over said gate electrode and said layer comprising said metal;

a contact hole provided over said layer comprising said metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising said metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

87. (Amended) A semiconductor device comprising:

a semiconductor island comprising silicon provided on an insulating surface;

a source region and a drain region provided in said semiconductor island, said source region and said drain region comprising a silicide of a metal;

a channel region provided in said semiconductor island between said source region and said drain region;

a gate electrode provided adjacent to said channel region with a gate insulating film therebetween;

Attorney's Docket No.: 07977/192001/US3444

*X*  
*cont*

a first interconnection formed on said insulating surface; a layer comprising said metal provided on said insulating surface and being in direct contact with said first interconnection and being connected with one of said source region and said drain region, said layer comprising said metal being connected with said interconnection through no contact hole;

*G*

an interlayer dielectric provided over said gate electrode and said layer comprising said metal;

a contact hole provided over said layer comprising said metal in said interlayer dielectric; and

a second interconnection comprising aluminum provided over said interlayer dielectric and connected with said layer comprising said metal through said contact hole,

wherein said contact hole is located outside said source region, said drain region and said first interconnection.

*P*

95. (Amended) A display device according to claim 61, wherein said first interconnection is provided in a same layer as said gate electrode.

*G*

96. (Amended) A semiconductor device according to claim 73, wherein said first interconnection is provided in a same layer as said gate electrode.

Attorney's Docket No.: 07977/192001/US3444

97. (Amended) A semiconductor device according to claim 74, wherein said first interconnection is provided in a same layer as said gate electrode.

98. (Amended) A semiconductor device according to claim 75, wherein said first interconnection is provided in a same layer as said gate electrode.

99. (Amended) A semiconductor device according to claim 76, wherein said first interconnection is provided in a same layer as said gate electrode.

100. (Amended) A display device according to claim 86, wherein said first interconnection is provided in a same layer as said gate electrode.

101. (Amended) A semiconductor device according to claim 87, wherein said first interconnection is provided in a same layer as said gate electrode.